

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : Confirmation No.:  
Applicant : Malcom Levitt et al.  
Entitled : NMR Spectroscopy using Spin States with Long Lifetimes  
Filed : HEREWITH  
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Examiner :  
  
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Customer No. : 29855

Commissioner for Patents  
PO BOX 1450  
Alexandria, VA 22313-1450

**PRELIMINARY AMENDMENT**

Please amend the above-identified application as follows:

- I. **Amendments to the Specification** begin on page 2 of this paper.
- II. **Amendments to the Claims** are reflected in the listing of claims, which begins on page 3 of this paper.
- III. **Remarks** begin on page 10 of this paper.
- IV. **Appendix A** includes a clean version of the substitute specification.
- V. **Appendix B** includes a marked-up version of the substitute.